

OPERATING INSTRUCTIONS

BAUSCH & LOMB

Balomatic

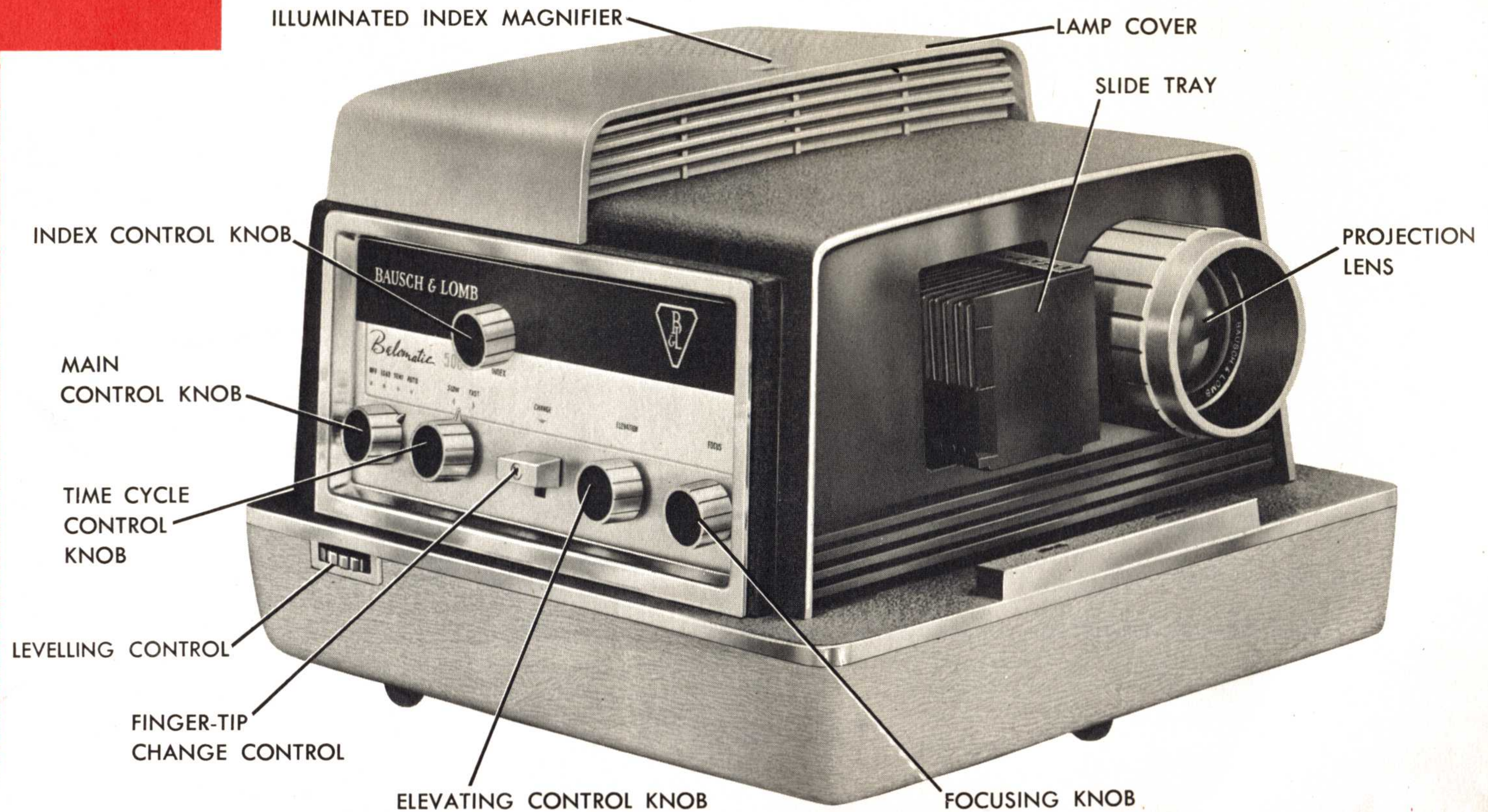
**SLIDE
PROJECTORS**



BALOMATIC 300 • BALOMATIC 305 • BALOMATIC 500

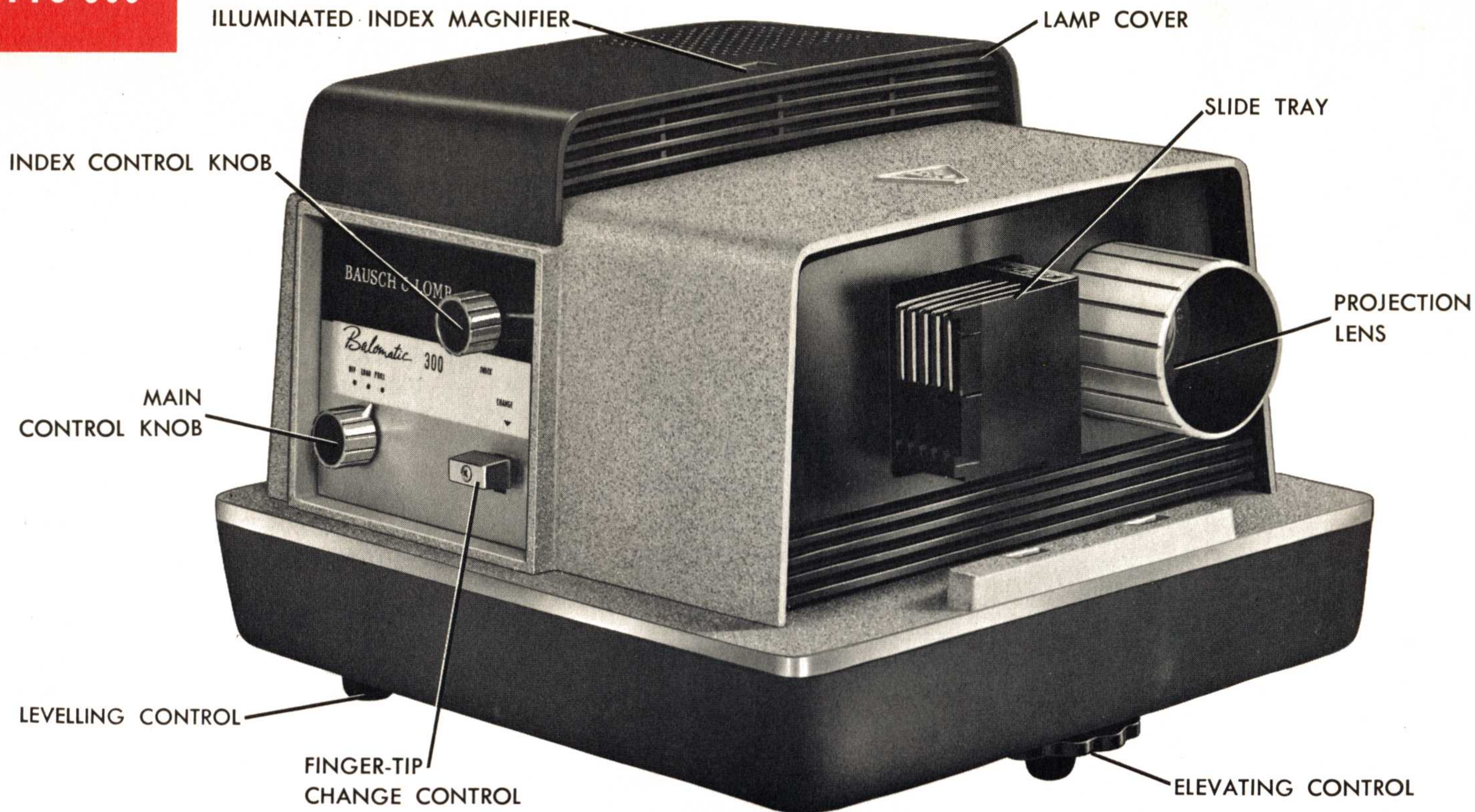
PARTS IDENTIFICATION

BALOMATIC 500



The various controls and parts pertinent to the operation of your Balomatic are shown on these pages. The same terms are used throughout this manual of instructions.

BALOMATIC 300
BALOMATIC 305



STEP-BY-STEP OPERATING INSTRUCTIONS

To become well acquainted with your new Balomatic Projector, it is recommended that you follow these step-by-step instructions. Detailed information and instructions are covered in the following pages.

1. The electrical cord will be found in the pocket in the case cover. Plug into 110 volt, 60 cycle A.C. outlet. Direct current will burn out motors in a few seconds.
2. Turn MAIN CONTROL KNOB to LOAD.
3. Turn INDEX CONTROL KNOB clockwise to advance tray out of tunnel. When knob turns freely, tray can be pulled out of tunnel by hand.
4. Load tray with slides. Tray does not have to be filled if you do not wish to do so. Have bottom of pictures toward tray numbers and emulsion sides toward front (numeral 1 on tray).
5. Insert tray in rear of tunnel with numbered side up and numeral 1 forward. Push tray in until it meets some resistance, then turn INDEX CONTROL KNOB one click clockwise. Note: numeral 1 on the tray can be seen through the ILLUMINATED INDEX MAGNIFIER.
6. Turn MAIN CONTROL KNOB to PROJ. on Balomatic 300 or 305, to SEMI on Balomatic 500. Roughly focus image and orient on screen using ELEVATING and LEVELLING CONTROLS as required. Make final focus adjustment. Note: final focus should be done about one minute after projector has been turned on and with slides in place to insure against slide popping.
7. Press down gently on the FINGER-TIP CHANGE CONTROL and slide No. 2 will move into position. Press FINGER-TIP CHANGE CONTROL again as desired to project remaining slides.
8. You can return to a slide already projected if you wish. Turn MAIN CONTROL KNOB to LOAD. This moves the slide changer arm inside the projector out of the way. The INDEX CONTROL KNOB can now be turned to bring the tray number desired under the ILLUMINATED INDEX MAGNIFIER. Returning the MAIN CONTROL KNOB to PROJ. or SEMI will automatically project the chosen slide.
9. Again turn MAIN CONTROL KNOB to LOAD. Slide tray can now be pushed or pulled out of tunnel. This completes the trial operation of the Balomatic 300 or 305.
10. If a Balomatic 500, reinsert the tray at the rear of the tunnel, clicking numeral 1 into position with the INDEX CONTROL KNOB. Turn the MAIN CONTROL KNOB to AUTO. Turn the TIME CYCLE CONTROL KNOB clockwise to its stop. After a short wait the projector will begin changing slides automatically. Turning the TIME CYCLE CONTROL KNOB counter clockwise will slow the rate of change. (Differences in local voltage supply will effect exact time for any given setting.) This completes the trial operation of the Balomatic 500.

RETURN THE ATTACHED CARD WITHIN
10 DAYS TO VALIDATE YOUR GUARANTEE

- Use only Bausch & Lomb slide trays
in your Balomatic.

- Your Balomatic has a remote control
cord available.

BAUSCH & LOMB OPTICAL CO.

performance as a result of conditions beyond our control.

Bausch & Lomb Optical Co. guarantees this projector to be free from defects in materials or workmanship under normal use or service. If, during its lifetime, this projector

proves defective in materials or workmanship, the Company will repair or replace it free of charge if returned to us prepaid. This guarantee does not cover lamps, glass parts, damage in transit, damage caused by carelessness, misuse or neglect, or unsatisfactory performance as a result of conditions beyond our control.

From raw materials to final inspection, this Bausch & Lomb projector has been produced under the rigid control of mechanical and optical experts. The design and the manufacture of optical and mechanical parts have been conceived with one purpose . . . the production of an instrument which will give years of satisfactory service.

Guarantee

REGISTRATION

Model: Balomatic _____ (300, 305 or 500) Date _____

Name _____

Address _____

This information will be kept in our permanent files.

WILL YOU HELP US? We would like your answers to:

1. Is this the first projector you have owned? Yes ☐ No ☐
2. What size slides will you project? 35mm ☐ Bantam ☐ Superslides ☐
3. What features do you like best about your Balomatic?
4. What additional features would you suggest?

FIRST CLASS
PERMIT NO. 7
(Sec. 34.9 P L & R)
Rochester, N. Y.

BUSINESS REPLY CARD
NO POSTAGE STAMP NECESSARY IF MAILED IN THE UNITED STATES

POSTAGE WILL BE PAID BY

BAUSCH & LOMB OPTICAL CO.
635 ST. PAUL STREET
ROCHESTER 2, N. Y.

ATT: C. P. SALES DEPT.

SPECIAL HINTS AND PRECAUTIONS

More so than any other projector, your Balomatic has been engineered, manufactured and inspected to assure you of trouble-free enjoyment of your slide shows. Certain precautions will guarantee perfect projection at all times. Specific "do's" and "dont's" are described below:

Plugging the projector into 110 volt, *direct current*, will light the lamp, but the projector will not operate otherwise and the motor will burn out in a few seconds. If plugged into 220 volt, alternating current, the projector will operate for a short time before burning out. A special model is available for 220 volt, 50 cycle use.

Never pick up the projector by the case top. Always use the handle provided.

If some cardboard mounted slides are out of focus it is because their emulsion side is toward the back of the tray instead of toward the front.

Glass slides alternated with cardboard slides will be out of focus because the glass changes the

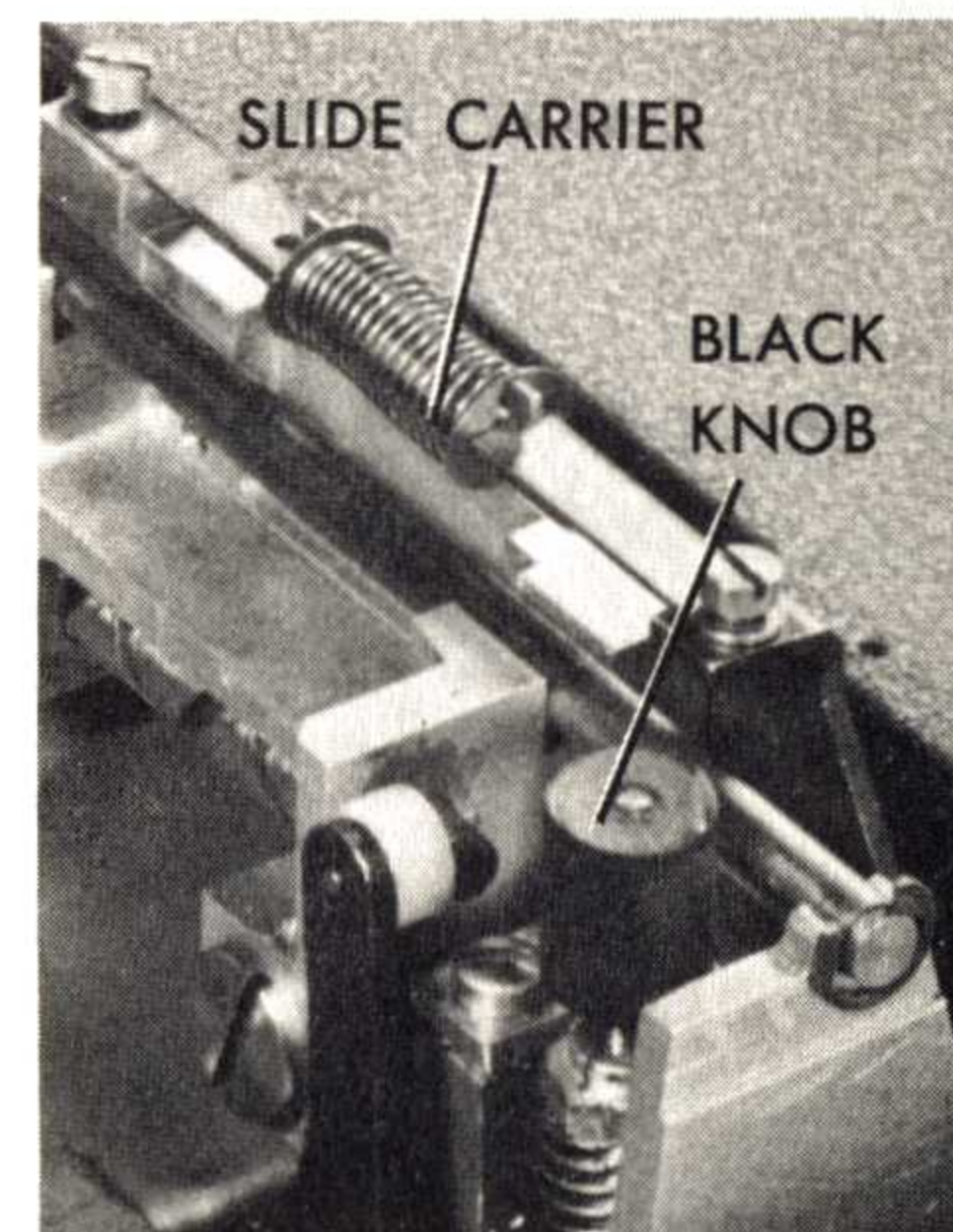
focal point of the projection lens. Group all glass slides together.

Before replacing the plastic lamp cover, be sure the sheet metal shutter is down out of the way to avoid bending.

Jams are caused, not by the machine, but by the condition of the slides. Very badly dog-eared or bent cardboard slides, sharp-cornered metal mounts or glass mounts with sticky tape probably will jam. If this occurs, turn the projector off IMMEDIATELY and see instruction below.

"De-Jamming Knob"

Remove plastic lamp cover. Note black wooden knob at right side of projector. This is a "de-jamming knob." Turn it *counter-clockwise* to free a jammed slide.



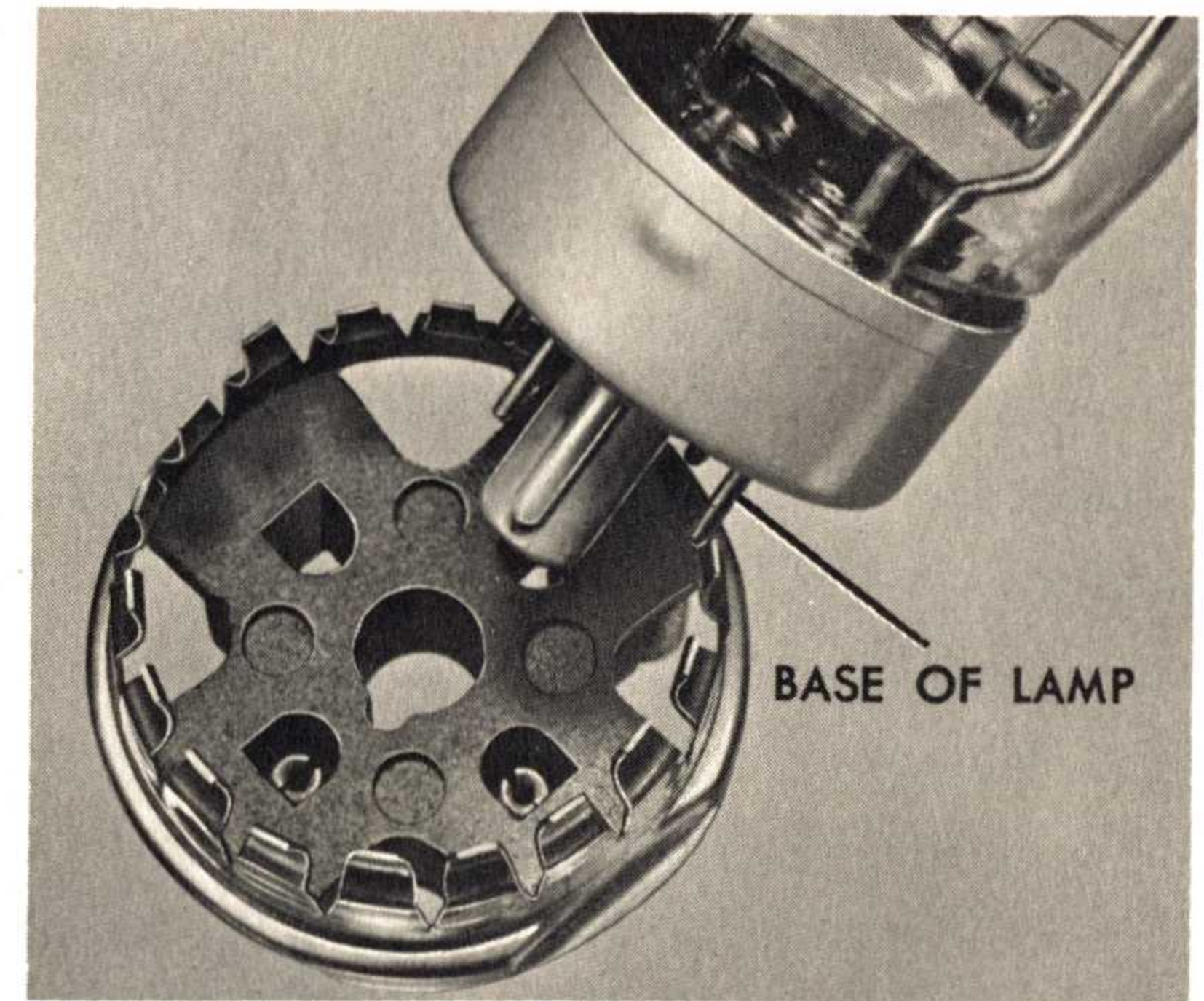
CARE AND CLEANING

LAMP REPLACEMENT—Disconnect electrical cord. Remove plastic lamp cover by pulling upward. Be sure lamp is cool; it can remain hot for some time. Remove lamp by pulling directly upward. **DO NOT TWIST.** Lamp base is like a radio tube—see illustration. Insert a new lamp being sure that key on large center prong of lamp lines up with keyway in center hole in socket. Lamps are made by both Sylvania and General Electric. The 300 watt is designated as CWD, Tru-Focus T-10; the 500 watt as DAK, Tru-Focus T-10.

LUBRICATION—No lubrication of any part will be required during the life of the projector. The motor bearings are made of oil-impregnated metal.

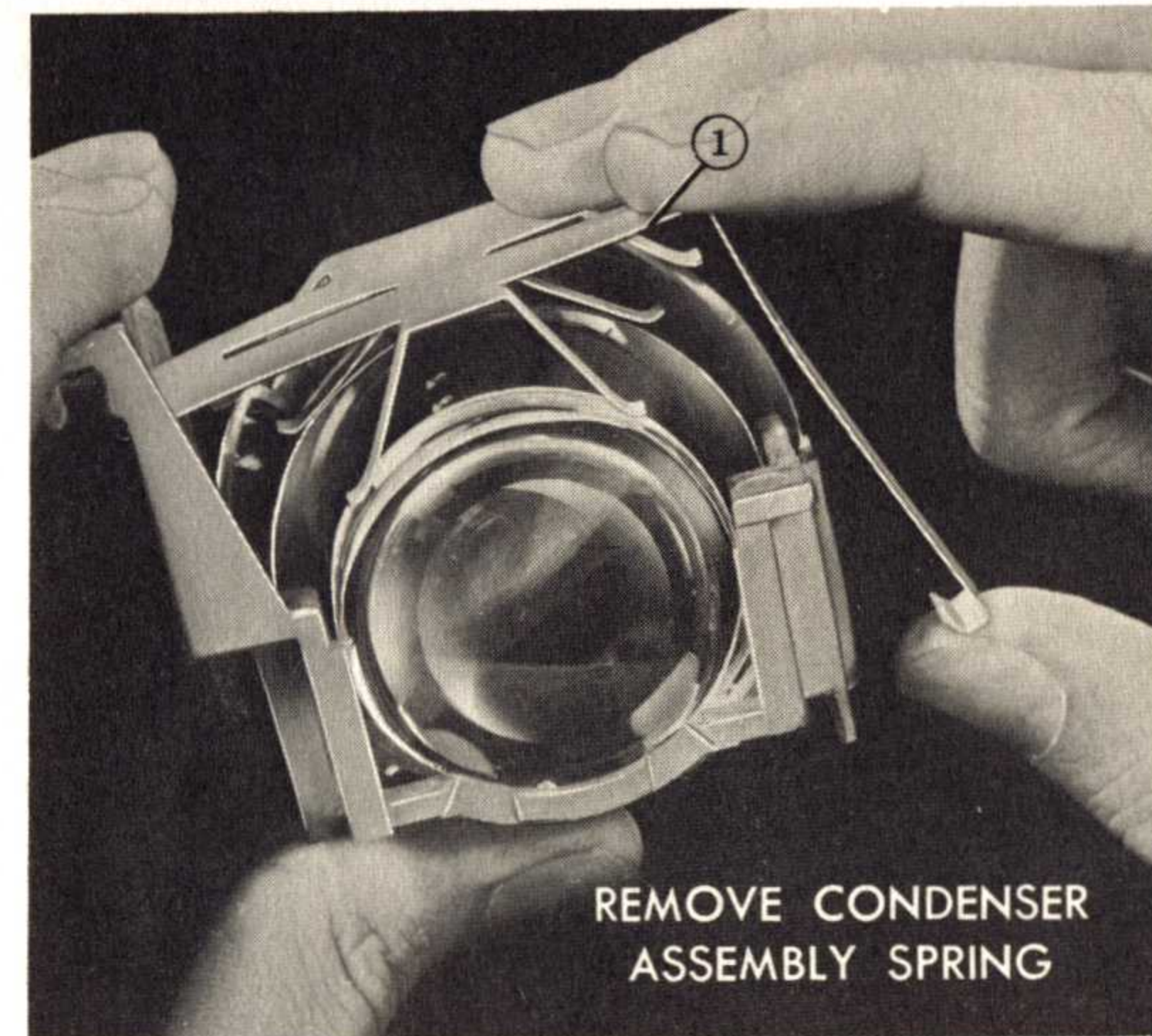
CLEANING PROJECTION LENS—The projection lens can be removed by simply pulling it straight out. *Do not attempt to disassemble the lens system;* clean the external surfaces only. First blow off all loose grit, then moisten the lens surface by breathing on it and wipe with a circular motion using soft paper tissue.

CLEANING CONDENSER SYSTEM—The mirror and condenser system need cleaning occasionally to remove dust.



Remove the projection lamp. Be sure that the slide carrier is all the way to the right (control panel side), Unscrew the CONDENSER LOCK SCREW and lift out condenser assembly. Snap off the spring retainer by pressing down on the top of spring at the right side (1). Clean with a soft paper tissue. When reassembling note that the strong convex curve of the small lens faces inward toward the heat filter. Both the large lens and the heat filter can be turned either way.

CLEANING CASE AND INSTRUMENT BODY—the outside of the projector, including the case, can be cleaned with a cloth *moistened* with water and a mild soap. Do not use abrasives of any kind.



REMOVE CONDENSER
ASSEMBLY SPRING

ACCESSORIES

REMOTE CONTROL CORD—a 15' cord which permits across-the-room operation
(Cat. No. 63-25-01).....\$4.95

SLIDE TRAYS—For convenient storage and elimination of slide handling, obtain
additional non-spill slide trays for all of your slides (Cat. No. 63-25-42).....\$1.25

Other makes of slide trays will not work in this projector.

PROJECTION THROWS

BALOMATIC 500 with 5" focal length projection lens

| Picture Size (long dimension) | 30 in. | 40 in. | 4 ft. | 5 ft. | 6 ft. | 7 ft. | 8 ft. | 9 ft. |
|--|--------|--------|-------|-------|-------|-------|-------|-------|
| Distance in feet (from projector to screen): 35mm (24x36mm) | 10 | 13 | 15½ | 19 | 23 | 25½ | 29 | 32½ |
| Bantam (28x40mm) | 8½ | 11½ | 13½ | 17 | 20½ | 23 | 26 | 29½ |
| Super Slides (1½"x1½") | 8½ | 11½ | 13½ | 17 | 20½ | 23 | 26 | 29½ |

BALOMATIC 300 BALOMATIC 305 with 4" focal length projection lens

| Picture Size (long dimension) | 30 in. | 36 in. | 40 in. | 4 ft. | 5 ft. | 6 ft. | 7 ft. | 8 ft. | 9 ft. |
|--|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| Distance in feet (from projector to screen): 35mm (24x36mm) | 7½ | 9 | 10 | 12 | 15 | 18 | 21 | 24 | 27 |
| Bantam (28x40mm) | 7 | 8 | 9 | 11 | 13 | 16 | 19 | 21 | 24 |
| Super Slides (1½"x1½") | 7 | 8 | 9 | 11 | 13 | 16 | 19 | 21 | 24 |



BAUSCH & LOMB OPTICAL CO., ROCHESTER 2, N. Y.